

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [13371] "magic" basic program

Here's a little BASIC program that will give one an approximation for the length of 450 ohm ladder-line needed to get close to a current maximum (low resistance/no reactance). It works for the average HF wire dipole. The supporting data was obtained from a 102 ft dipole at 37 ft. It works best for 80m-30m, probably the bands of choice for qrp.

```
10 CLS
20 INPUT "Enter Frequency in MHz ", freq
30 INPUT "Enter Dipole Length in Feet ", diplenft
40 dipwl = diplenft / (936 / freq)
50 IF dipwl < .5 THEN dipwl = dipwl + 1
60 IF dipwl < 1.5 THEN GOTO 90
70 IF dipwl > 1.5 THEN dipwl = dipwl - 1
80 GOTO 60
90 fedlinwl = .25 - (TAN(2.5 * (dipwl - 1))) / 12.02
100 fedlinft(0) = (886 / freq) * fedlinwl
110 FOR i = 1 TO 7: fedlinft(i) = fedlinft(0) + i * (443 / freq): NEXT i
120 PRINT "Imax points at"
130 FOR i = 0 TO 7: PRINT fedlinft(i), : NEXT i
140 PRINT : PRINT : GOTO 20
150 END
```

One can use this program to test to see if one's present 450 ohm ladder-line fed dipole is being fed close to a current maximum.

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: wa5whn@juno.com (Jay D Miller)
Subject: [13421] 15 meters is open
Message-ID: <19970301.145236.4447.1.wa5whn@juno.com>

QRP-Lers,

2130 UTC, March 1, 1997. 15 meters is open, S-7 signals from New England, plus HK4's that are S-9+. Loads of Contest SSB stns up on the upper end. Nothing on 21.060 MHz.

Where is everyone ?

72...Jay, WA5WHN DM65qd

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Dave Adams <adamsclan@netgate.net>
Subject: [13380] AEA Day!
Message-ID: <3317C4FB.6F5D@netgate.net>

Well, it was aea day at the adams household today! I walked into the apartment and found TWO ups boxes sitting on the desk! I opened the first box (from R&L electronics) and it was my new (well...) AEA DX Handy for 10m...Cool! I assume this guy was actually nee mizuho, but does anyone have any info on a crystal source? What types of crystals do these jobs use (I know the freqs, just not the crystal type)?

Opened the other (from AES) and it was my new AEA isoloop autotuner...also cool!

This should make for an entertaining weekend!

73 de dave, n9uxu

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: NilsBull@aol.com
Subject: [13415] And you thought I was excited about the NC38S
Message-ID: <970301153745_1713470597@emout16.mail.aol.com>

Man, my neck hurts. My arms hurt. My brain hurts. My trousers are covered with grease. What a trip!

I went over to north Dayton today and dissassembled a 1920s vintage Golding 7x11 Pearl platen press and somehow managed to squeeze it into the Nissan Sentra. (I have a picture of me at age two standing in front of my father's pre-1920s Pearl. I also have hopes that some day I'll find one of that vintage.) It came apart with a reasonable amount of coercion, after I chipped a couple decades of dried ink off the main shaft & platen rocker shaft. Too bad someone had brazed the throw-off back together . . . twice.

So you guys who are into old radios, I understand. Or you understand me. Something about these old cast iron beaters gets me going. And a treadle powered press too! What a great way to get some exercise, ne? Print my own QSLs. Got enough type, sure 'nuff. Bet the sound of that press running will bring back memories from when I was just a little beaker.

So if you don't see me goin' on about them badgers ate my cheese for a while,

you'll understand, ne? I have to go over to Indy and get some parts off Dave Churchman (he's nuts... he has 8 or 9 of these things in his warehouse) so that the base is solid as designed. Something about putting a 300 lb press on a base that's missing two cross-brace pieces just seems a little too dangerous. Kinda like leavin' the 30m vertical mounted on the ground so the neighbor's pre-teenage delinquent son can get rad burns off it.

And if you want me to tell you what the hell a Pearl is, email me directly. I'll bulk main answer any questions. All but one. Cindy asked me where I'm gonna put it. I figure it'll fit in where the Intertype caster is now. Once I find a bone head what wants to come get it and free up some garage real estate space. For the Pearl, of course.

Now where's that address for Acme Printers Roller Co?
(And yes, this will be on my web page once it's done . . . with a link to the PostModern HomePage. . . but that's another story.)

73

Nils

WB8IJN +c

proprietor of The Tagalong Press . . .

founded in 1946 by G. Bull Young

who taught his son the joy of leaving inky fingerprints
on all the light switch plates in the house... much to
the dismay of more finnick members of the family.

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: n4so@juno.com (CHARLES K BROWN)

Subject: [13412] Anti Corrosion Compound

Message-ID: <19970301.133626.2239.1.n4so@juno.com>

--Penetrox--

At one time....

sold by Mosley Electronics

the old address from a 1992 QST

1344 Bauer Blvd.

St. Louis, MO 63132

800 966-7539 Perhaps sold by your local electrical outlet.

Use it on each aluminum antenna element where they are joined together.

This paste or compound will keep the interior connection bright and relatively shiny. On old antennas, it is necessary to use fine sandpaper and sand

the element connection of all dirt, grime and corrosion and

apply the paste . Apply to verticals or Yagi beam elements. Sold in small plastic packets and a little goes a long way.

Works best if you apply Penetrox to a new vertical/beam antenna.

Ken Brown, N4SO
QTH Near Mobile, AL
QRP-L #622
n4so@juno.com

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Everett Winsberg" <ewinsberg@coup.wednet.edu>
Subject: [13407] Argo 515 and 405 Amp For Sale
Message-ID: <n1354909746.11099@coup.wednet.edu>

For sale: Ten Tec Argonaut 515 (80-10 m CW/SSB, 5 watts QRP) in excellent condition with manuals, \$425 or best offer. Ten Tec 405 80-10 meters, 50 watt amplifier with manual, \$175 or best offer. Both items are in excellent working order and have been used in a non-smoking environment. All reasonable offers considered. Everett (N7BHI). (360)678-3119 or ewinsberg@coup.wednet.edu

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [13410] BASIC pgm for 300/450

I've been asked to make my BASIC program work with 300 ohm ladder-line as well as 450. Here it is. One can see how far off the G5RV matching section is for the various bands and what adjustment can be made to improve the G5RV response on certain bands. Once again, these results are approximations based on EZNEC and must be fine-tuned for perfection.

```
10 REM This program calculates optimum ladder-line
20 REM lengths given dipole length and frequency
30 CLS
40 INPUT "Enter Frequency in MHz ", freq
50 INPUT "Enter Dipole Length in Feet ", diplenft
60 INPUT "Enter either 450 or 300 for Z0 ", Z0
70 IF Z0 = 450 THEN LLWL = 886
80 IF Z0 = 300 THEN LLWL = 787
90 dipwl = diplenft / (936 / freq)
100 IF dipwl < .5 THEN dipwl = dipwl + 1
110 IF dipwl < 1.5 THEN GOTO 140
120 IF dipwl > 1.5 THEN dipwl = dipwl - 1
130 GOTO 110
```

```

140 fedlinwl = .25 - (TAN(2.5 * (dipwl - 1))) / 12.02
150 fedlinft(0) = (LLWL / freq) * fedlinwl
160 FOR i = 1 TO 7
170 fedlinft(i) = fedlinft(0) + i * ((LLWL / 2) / freq)
180 NEXT i
190 PRINT "Imax points (Current Loops) at"
200 FOR i = 0 TO 7: PRINT fedlinft(i), : NEXT i
210 PRINT : PRINT : GOTO 40
220 END

```

A supporting graphic is on my web page.

73, Cecil, W6RCA, 00TC <http://www.geocities.com/CapeCanaveral/8476>

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
 From: "James R.Sharp" <lobar@doitnow.com>
 Subject: [13411] BuzNot Noise Blanker
 Message-ID: <199703011853.LAA02714@in1.doitnow.com>

Hi everyone

The Buznot noise blanker sounds interesting...can someone tell me where to get details, schematic/partslist/usage.

Thanks in advance!

Jim KC7GHP Peoria Arizona

```

*****
***** We the people are now practicing five of the *****
***** ten articles of the communist manifesto *****
***** Maybe that's why we never hear about *****
***** communist party candidates anymore *****
*****
-----

```

James R.Sharp
 lobar@doitnow.com

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
 From: WNZG87F@prodigy.com (MR SAM F BILLINGSLEY)
 Subject: [13399] Cleaning Aluminum Tubing
 Message-ID: <199703011406.JAA117812@mime4.prodigy.com>

I have a ten year old Butternut vertical that needs to be cleaned and re-tuned .

Could someone give me advise on the best way to clean the aluminum tubing for best electrical connection. Is there any conductivity paste that will help?

I have just joined this group I have enjoyed the digest version of the messages. I am waiting for my NC38S and Tick-1 to arrive.

I have an Index Labs qrp+ and an Ramsey 1 watt 40 mtr vxo transmitter. I am usually on 30 or 40 meters on the weekends.

Keep up the great work.

Sam Billingsley/AE4GX

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: borealis@juno.com (Philip G. Collier)
Subject: [13406] Cleaning Tarnished Keys
Message-ID: <19970301.131253.2511.1.borealis@juno.com>

Dave,

A cloth towel and some Brasso ought to clear up that tarnish pretty well. I've never tried that Tarn-X stuff, so maybe someone on the reflector can say more about that. Here's a mixture that is helpful for cleaning really gunked up metals. Called Ed's Red, it appeared as a gun oil about 4 yrs ago on the Fidonet Firearms group:

1 quart automatic transmission fluid
1 quart kerosene
1 quart mineral spirits
1 quart naptha
1 ounce lanlolin (optional)

This and an old toothbrush will go a long way :-) Don't use it on parts containing rubber or plastic, though. It'll mess'em up worse than badgers on a full moon...

73,

Philip Collier; KG2DH

QRP-L # 1020, ARRL, AMSAT, Order of the Wouff Hong.

Hunting DX on 30 meters; 5 watts and 300 Hz in the groove...

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: highland@cityscape.net
Subject: [13425] Crystals where to buy them?
Message-ID: <3318AE1A.68A7@cityscape.net>

Gang,

I need a source for 80 and 40 meter crystals in the H-73 cases if at all possible. If not I could probably modify the project I'm working on to use a different socket and crystal type. Frequencies I'm looking for are novice portions of 80 and 40 meter. Also crystals between 3.550 and 3.575. These need to be fundamental crystals!

de KA9KQH, Dwayne Terry

--

....quitely making noise.....
mailto:highland@cityscape.net

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [13356] Debugger #2: Day 2 -- We have ignition
Message-ID: <199703010022.SAA03341@multi13.netcomi.com>

The work continues on the infamous Radiokit debugging competition. The pressure is on.

Started my test session today by reconfirming what I found yesterday with the receiver. Still working OK. Don't know what the exact sensitivity is, but it seems to be usable. Picks up a signal out of the air from the generator set to -60 dBm. The frequency shifted a little overnight, which is to be expected with the flying wires where the VFO cap should be. Won't know what the stability will be until it is assembled in the box.

Learned a little more about the AGC oscillation. It seems to be very dependent on the power supply and supply bypassing. Since this will change radically when I remove the haywiring and put it into the case with the regulator, I decided to leave it alone for now. I'll revisit the AGC when things are cleaned up.

Started to work on the transmitter. Larry spent a lot of time preparing to bring up the transmitter, but I don't know if he actually got around to key-down smoke releasing.

OK. Power on. Key down.

Nada.

Look for the obvious. Yep, no power to the driver or PA. Why not? Trace it out. Of course -- gotta connect the other wire! As my High School Thermodynamics instructor always reminded us, "Do you have kinetic energy? Do you have heat energy? Do you have electrical energy? Of course not! It ain't plugged in!"

OK. Power on. Key down.

No smoke. No output. That's good. If there's no smoke, there's hope.

Checked the mixer output with the scope. The 4.95 MHz VFO gets mixed with a 12 MHz xtal osc in an NE602 to produce the 7.050 transmit frequency and the 16.95 MHz image. Remember that.

Looks OK. Peak up the trimmer. Feels right -- got a good peaking response.

Just for the heck of it, I checked the current through the driver (2N2222) by measuring the DC voltage across the emitter resistor, whose value I noted was 15 ohms. 670 mV across 15 ohms is 44 mA. Too much! That puppy must be getting a little warm. I'll just check it with my finger.. OUCH! Key up. Power off. That was close; almost let the smoke out.

15 ohms....15 ohms... hmmm. I recalled having read something about that in the notes. Aha! "If using a 2N2222, use a 47 ohm emitter resistor." So I changed it. Measured the quiescent collector current at the emitter again. 14 mA. Much better! Checked the bias voltages. Looks reasonable.

I noticed when measuring the emitter voltage with the scope that there was no RF signal superimposed on the DC. That's good. The driver uses an emitter bypass cap so there is no degenerative feedback at RF. This points out a good debugging technique. As you go along, confirm that everything is consistent with the way the circuit should work. Check signal values. Even if you get what you think is a good output, things still may not be working the way the designer intended, and you may have an unpleasant surprise later. (Repeat after me: Unpleasant surprise later... unpleasant surprise later...)

Peaked the tuned circuit on the collector side. Seemed to peak OK, but I only got 900 mV on the base of the PA. That's not even close for a class C amp. Read Larry's notes. He calculated the resonant value of the tuned circuit and figured that it wouldn't work without an extra cap, which he soldered on the back of the board. Hmmm. Tried removing it. Now I can peak it up to 5 Vpp to the PA. The power supply draw is now 250 mA (up from 40 mA on receive) and the PA transistor gets comfortably warm after a few seconds without a heat sink. Should be more than 250 mA at full power,

though. Checked the output level at the dummy load with the scope. Nothing. Hmmm.

Look at the drive signal with the scope. Play with the tuning. Feels right, but something is still wrong. Turn on the cursors to read out the frequency. You idiot! (Me, not you) I peaked things up on the transmit image frequency of 16.950 MHz! That's why it worked better with Larry's cap removed. Larry, I never should have doubted you. (...unpleasant surprise later...)

Back to the mixer. Can't peak it for 7 MHz. Values must be off here, too. I think Larry had a suggestion about that in his notes, also.

Tacked a 100 pf cap across the mixer output circuit. Now it peaks up just fine on 7MHz. Retune all the stages after putting Larry's collector cap back in.

WE HAVE IGNITION! Got a beautiful 37 Vpp sine wave at 7 MHz on the dummy load. That works out to 3.35 w. Power supply current is consistent. Supply voltage is 12 volts.

Measured the frequency with the Radio Shack counter. Hmmm. About 20 kHz off from where the receiver is receiving. Since the same VFO is used for transmit and receive, this can only happen in one place -- the 12 MHz xtal oscillator in the transmit mixer NE602. Tweaked the trimmer. Wow, this is sensitive. It has a surprisingly wide frequency range for a trimmed xtal oscillator, so it is hard to set exactly right, but I got it within 200 Hz of where it should be. Aha, Now we have sidetone! The sidetone is actually the receiver hearing its own transmitter.

Got the BFO, transmit offset, and filters all working within 200 Hz of 700 Hz. Good enough for useful work. Runs on lower sideband, single signal.

Raised the power supply to 13.8 volts and measured 42.8 Vpp into 50 ohms. That works out to 4.6 W. I can lower that smoothly with the drive control pot. Signal looks clean on the scope. Don't have a spectrum analyzer to check the harmonics, but I don't see anything on the scope to worry about. Draws 670 mA from the power supply. Just right.

This rig is starting to look like it might work pretty well. The main problem so far seems to be inadequate documentation, especially concerning changes necessary to put it on the selected band.

What next? All the circuits have been checked and seem to be doing something useful on the bench, albeit with a few minor problems. Maybe it's time to clean it up and put it in the box?

What do you think?

Mike K1MG

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: km@PACT.ORG.PE ()
Subject: [13390] Dipole VEE portable and simple
Message-ID: <m0w0oMI-000V5WC@uucrcp.rcp.net.pe>

1 MAR 97

Matt asks about a dipole and feeder for camping etc.

IMHO -- don't fiddle around. Just cut a decent resonant dipole of insulated wire, a lightweight center piece for holding the coax and wire together. Forget the tuner.

Insulated wire -- it does not fray and is easy to find in any electric supply or place that sells zip cord (I like blue myself, 12 GA as used in conduits)

Resonant -- this is where its at! any place else, it's not.
QRP Frequencies are a small segment of the band. Spend the time to tune the dipole.

No connectors - at the dipole feed point just extra weight no purpose.

COAX -- at 30 & 40 meters the loss is not a factor unless you are feeding the dipole on the top of some climax tropical jungle at 60 meters! Just get some decent small diameter COAX. Ladder needs all sorts of baluns or a tuner (forget 'em).

Forget the tuner -- on 30 or 40 we usually are in such a small segment that it is not worth the carrying weight.

BTW -- Forget end insulators. Just fold back and twist the ends of the dipole (part of the tuning process anyway) and wrap the twisted loop with some tape (keeps the end from snagging), then use cord through the loop to hoist the ends. (If arching you see, then 'you ain't QRP'!)

30 & 40 meter Op? Then bring along two tails to hang from the ends of the 30 meter dipole and use an alligator clip -- shame to remove that nice sky blue insulation but...

GO FOR RESONANCE! KEEP IT SIMPLE!

Kris
OA4DBO

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: bruce muscolino <w6toy@pop.erols.com>
Subject: [13409] FDIS 97 Speakers
Message-ID: <1.5.4.16.19970301143548.092f0a76@pop.erols.com>

Folks,

I'm posting this to the list because it is easier than sending seventy-six gazillion individual meggases to everyone who's asked. This year's crop of papers fall into three broad categories -- operating, filters, and equipment. No antennas yet.

Operating:

Bob White, W03B -- Bob is going to tell us how to computerize our logkeeping with commercial database software. I will be minor contributor contributor to this one. Bob uses Paradox, and I use MS Access, for our station log books. Commercial database software will easily store your station log, and let you "farm" it selectively for awards and other purposes. Note, this is not contest logging software.

Bob Gobrick, N0EB, and Chuck Adams, K5FO -- Keyers, keying and morse code. Bob is writing what he calles the definitive paper on sending cw. Chuck will contribute his personal expertise with cw and, as I understand it, give us some demonstrations.

Preston Douglas, WJ2V -- Preston tackles a pupoual and often controversial topic -- how to be sure you're on the same frequency as the other guy. Zero beat is the name and the concept. An interesting paper, and a presentation that will include demonstrations.

Filters:

We've got every stage of the radio covered here -- some presentations you definitely Do Not Want to Miss.

Mike Perry, PA3ASC -- An old friend from my days as PA3AIC, Mike will show us how to design and build double tuned bandpass filters with components from Mouser. Mike clearly explains the factors affecting filter and performance. He includes a Basic computer program you can use to do your own designs.

Bill Carver, W7AAZ -- Many of our QRP rigs use ladder type crystal filters, and we all express wonder at how well these little four pole filters perform. Well, how about 16 poles? Oh yes, 16 of them guys. A really high quality SSB filter. Bill is one of our hobby's experts in multi-pole ladder filter design, and he will tell us how to do it with inexpensive crystals.

The Reverend George Dobbs, G3RJV -- This year George tackles the back end of the radio -- the output filter. He's put together a paper on practical output filter design, including real world component selection information. Do you suppose there is any reason why two of the three filter papers are from Europe?

Equipment:

Dave Benson, NN1G -- Dave is going to stop designing radios long enough to explain Direct Digital Synthesis to us. He will show us how DDSs are designed using one of Steve Weber's DDS VFOs as an example.

Other papers on the horizon. I have promises of papers from a couple of other authors but have not seen anything from them lately. I've given a couple of them extensions, made possible because I got an early start this year. If you've got an idea that just won't wait, talk to me about it. I might be able to fit you in.

Our very first seminar (maybe):

I'm trying to put together a seminar on computer based schematic drawing and board layout software. I have one speaker and need at least two more. There will likely be a small extra charge for this seminar.

If you use this schematic drawing and board layout software at home and think you'd like to demonstrate it to a small group, talk to me. I don't want the high end commercial stuff -- none of us can afford it and even fewer of us have access to it at work. I hope to have an LCD panel and a laptop computer to support practical demonstration. I don't have a spot on the schedule set aside for this yet.

See you all in Dayton.

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: dwink@juno.com (Daniel C Winkler)

Subject: [13428] Fix-it contest, 73, WG, antennas, Bulgaria, QRO 38S

Message-ID: <19970301.153447.4335.9.DWink@juno.com>

On Fri, 28 Feb 1997 20:18:34 EST rob3ert@juno.com (Robert G. Parks)
writes:

>Great job, Mike!

>

>Put it in the box. Being selection number nine, I knew it would never
>make it to me!! You guys are great!

Bob and Gang;

What we needed was ten (or seventeen or...) identical, messed-up, half-built, poorly-documented turkeys so that each debugger could take it from ground zero all the way to working masterpiece. This is (was) a neat contest! The fat lady hasn't yet sung, but I can tell by the number of dead problems littering the stage that the final aria is imminent. Anyone have any ideas about where we can find the necessary contest centerpieces for another round?

BTW and FWIW, I have now NOT posted comments/replies to at least 12 messages this last week! I am not sure if this is good or bad, but it may save enough time for me to finally start work on my 38 special!! Saved you all some BW, too. OTOH- RE:

1. 73- editorially sloppy. Bad articles (poor science) and good. Don't bother to build an antenna featured in 73 unless you know what you're doing. But Wayne was excellent in former years- see the earlier years of CQ. Great construction articles in the 60's.

2. Wayne Green - I have noticed an interesting phenomenon. Some very bright people get mystic as they grow old, and begin to espouse junk science or extreme religious views. Linus Pauling had his Vitamin C, Wayne has code and the ARRL, Heinlein in his later years was pretty...-- not sure what to call it. Wonder if it will (IS) happen(ing) to me? ("Very bright" is questionable, "old" depends on whether you ask my muscles/joints or my brain...)

3. Antennas/qrp. I highly recommend "Aerials II" by Kurt N. Sterba ("a compilation of columns appearing in WORLD RADIO 1985-93"). You may not like his style (and I wonder if he doesn't fall into the above category), but he is basically one of us. He runs QRP by putting a QRO

signal into the most outlandish antennas he can think of: 2 lawn chairs, 2 shopping carts, an umbrella... He gives examples of other feats: the guy who checked into his 80 meter net by running a T connector out his rig- one side to a dummy load, the other to his roof mounted 2 meter ground plane. No one noticed the difference in his signal!

4. Beer can antennas- Is anyone else bothered by the use of steel as an rf conductor? It has 8-9 times the resistance of copper, and it is magnetic to boot (I have absolutely no idea what effect that might have- but if there is an effect, it is bound to be increased loss)(Except in the case of the infamous slinky, where I am sure in my bones it must dramatically increase the loss!)(no proof, tho.) Steel whips bother me, too. Larsen plates his with copper.

5. Bulgarian plea, comment "is this a scam?" - Same occurred to me. Is it not sad that we must consider this possibility? RE: "QRP-L is not the place to discuss this"- then where?

6. QRO 38S- There are a lot of devices out there with higher voltage ratings (150, 200), and higher power ratings (and lower R-on) for a few pennies more. You could tap that 8v regulator down on the battery string- run off 12 volts and run 48 volts to the MOSFET!!! BTW, I don't think that output filter, even as modified, is optimized. The input capacitance should be much higher (lower reactance). If I can just get myself to leave the list alone, I'll start on the 38s and eventually re-design the output filter. I also plan to make the output switchable- PA in or out- and still match impedances correctly.

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "John Kirk, VE6XT" <jakirk@freenet.calgary.ab.ca>
Subject: [13357] flat nicads
Message-ID: <Pine.A32.3.93.970228170858.80910A-1000000@srv1.freenet.calgary.ab.ca>

Hi:

In theory, dead nicads can be brought back. If they are truly 0 volts, it is usually because a little conductive whisker has grown from the anode to the cathode, shorting out the cell. It can sometimes be "blasted" off by discharging a large electrolytic across the cell (say 10000 uF), right polarity 'round, of course. This usually only works if you can access each cell individually. In a multicell string, it usually does more harm than good. Of course, one would put the pack on charge *immediately*, otherwise, it could grow another whisker, or even take a backwards charge from its neighbours.

In practice, I've noticed that nicads brought back from the dead seldom last as long as fresh ones, and quite often revert to their former shorted state. I definitely would not recommend mixing rejuvenated cells with goods ones, as the bad ones sometimes take out the good ones when departing for battery heaven.

Good luck!

John

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: kd1jv@juno.com (Steven Weber)

Subject: [13416] Good-by good friends

Message-ID: <19970301.144752.8055.0.KD1JV@juno.com>

It finally happened, my free ride with JUNO has come to an end. I'm one of those "5%" that now have to pay a toll call. Now, I'm not as bad off as that fellow from Bulgaria, but I must bugget carefully if I'm to make it to Dayton, so it's QRT from the list for now.

I'm going to miss you people. Hope to meet many of you at Dayton.

73/72 and QRT, de Steve KD1JV

Maybe now I'll get some real work done again....

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: chas@nmaa.org (Charles Kadesch)

Subject: [13417] Great QSO

Message-ID: <3318C367.7504@nmaa.org>

I just finished a great QRP QSO with WB8TLC/7 on 14 MHZ. Craig was operating on his skis {!} in the snow in Utah where he had just strung a wire on the

mountain slopes and he was running 4 watts. And the band isn't even very good today. This kind of stuff keeps radio fun even after 44 years on the air.

-72-

Chas W3KC

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Jim W7LS <w7ls@brigadoon.com>
Subject: [13424] HW-8 pair is sold. Tnx
Message-ID: <199703012221.0AA04593@olympic.brigadoon.com>

I could have sold a dozen of these rigs if I had them. Tnx, everyone!
.73 (73 down 20dB) de Jim, W7LS

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: ALK0FRP@aol.com
Subject: [13381] KM1H
Message-ID: <970301005439_1846808343@emout03.mail.aol.com>

Carl (KM1H) wrote:

>

> Have you actually listened to the QRP frequencies lately??
> I have never, in over 40 yrs as a ham, heard such poor signals.

> The QRPers are so deep into cheap that they have lost the concept
> of quality.
> The QRPers are a problem...not a solution IMHO.

I worked 220 stations in both contests and I heard ONE station with what I would consider a poor sounding signal (yes I will say), AA8LF was given a poor tone report followed by : "Bad Chirp" with which he acknowledged with a TU. (20m 2203z MI 1w 40F). I have been licensed for 35 years and remember the days of the tube type VFO's that would walk across the band and Chirp and key click all over the place.

That is why Novice stations were crystal controlled. Inexpensive VFO's were not stable. A high percentage of today's NE602 type rigs can run rings around the 1960's rigs, in both receive and stability. Are we going the wrong way "NO SIR" I think not.

Maybe the C02 station on 7040 that drifted to 7045 was what you heard!!!!!!
I heard some poor semi-auto bugs but that's not the rig's fault and that's my opinion.

AL K0FRP

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: wa5whn@juno.com (Jay D Miller)
Subject: [13383] KM1H/Chirp comments
Message-ID: <19970301.000232.8223.0.wa5whn@juno.com>

QRP-Lers,

I have to agree with K0FRP. The extreme that I had to go to, just to get the current fine crop of kits (N6KR design, NN1G design, K1BQT design & others), to sound like some of the old tube type VFOs (less than 24 deg. F, outdoors, with 11VDC batteries). At room temperature (70 degrees F), every one of these current NE602 based design xcvr kits, out perform the 12AU7 VFO designs of a few years ago. Anyone remember the VF-1 from Heathkit ? Anyone remember the fun keeping that box stable for any length of time ? There is a great tube vs. current QRP xcvr design cost analysis, by K0FRP, in the current issue of the Colorado QRP Club's "The Low Down". If Al's figures are correct, the current crop of NE602 based QRP designs, cost a little over \$6.00 in 1962 dollars. In fact, if You have ever played with 1AD4 tube designs, and the 2C39A tube designs, trying to keep them stable just on VHF, there is no comparison to today's radios/kits. I am about to break a sacred rule on this list, but I still like building linear amps (1KW) using 3-500 Z's & the TH series tubes. There, they work beautifully. Yes, I still like to play with "glow in the dark" radios (I still have my HW-16 & BC-348Q) radios, but these new QRP xcvr kits are an order of magnitude better in the stability/cost part of the curve.

Maybe we should tap some of our Fraternity, in the "Boat Anchor" list, to run some stability tests for us. Compare notes...

Let's jar some memories here. When was the last time that You had heard of someone building a QRP xcvr kit (NN1G, N6KR, K1BQT, W6EMT, et al designs), and getting bit (shocked) by 12 VDC ? Let's see the show of hands. I had thought so. You old timers out there (QCWA++); how many of You remember being bit (Shocked) by the tube type radios (Heathkits) ? I rest my case. Keep them neat itty-bitty designs coming. Gee, if I had the noise figure of just one of these kits on the HW-16 when I had started a few years ago, I would not have needed 70+ watts to talk to everyone.

Less than 2 months to QRPTTF (April 26th). :-)

72...Jay, WA5WHN

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Ronald Hands <Ronald.Hands@freenet.hamilton.on.ca>
Subject: [13413] ladder line
Message-ID:
<Pine.GS0.3.95.970301144756.15002A-100000@james.freenet.hamilton.on.ca>

Some time ago, there was a mention on QRP-L of a device for securely attaching ladder line to the centre feedpoint of an antenna. I think it was sold by one of the QRP kit suppliers. Anyone have the details?

-- Ron VE3SP
ronald.hands@freenet.hamilton.on.ca

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: lve1@inel.gov (Larry V East)
Subject: [13351] LM386
Message-ID: <2.2.16.19970228235736.32effe2e@eloi>

Paul -- I just read "The LM386 Cookbook" by you in the latest "Low Down". Lots of good information there, but I was a bit amazed that you failed to mention the use of a bypass cap on pin 7. A small electrolytic or tantalum cap of a few uF from pin 7 to ground will isolate the high gain input stage of the LM386 from power supply noise, hum, transients, etc. Such a bypass cap is much more effective in this regard than the "brute force" Vcc filter that you recommend in your note #2.

You aren't the only one to ignore this; most commercial rigs (and kits) using the LM386 either fail to bypass pin 7 at all or use too small a value (0.01uF or 0.1uF) to be totally effective. For example, Index labs uses a value of 0.1uF in their QRP PLUS and increasing the value to 4.7uF completely eliminates the "thumps" in the audio output produced by Vcc transients when the transmitter is keyed.

I don't mean to be critical, but I just don't understand why the proper use of the LM386 "bypass pin" seems to be overlooked by almost everyone (in "hamdom", at least) using this device! It's even label "bypass" in the data books (and your Fig. 2 in your "cookbook" as well).

72, Larry W1HUE/7

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>
Subject: [13367] Looking for QRP Kit/Rig?
Message-ID: <3.0.32.19970301015752.0069f01c@mailhost.primenet.com>

Spent some time finishing up the chassis wiring inside the TenTec enclosure for the 38s and discovered that I in fact have one of the bad crystals and it is soldered into the board. Oh well... Hopefully, I'll get the new one in the mail next week.

I have *REALLY* taken my time building the 38 Special and it has been enjoyable. Hopefully testing will be as enjoyable ;-}

Anyway, I'm looking for a QRP rig or kit to operate in the QRP To The Field event upcoming. I plan to build a 40m SST in May, but would like to have something before (in addition to the 38 Special).

What sort of QRP CW rigs or kits are for sale presently? Please email me with your list of treasures for sale...

73, Brian ke7gh@primenet.com

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [13376] More G5RV-type info

I used my BASIC program to generate the following chart which shows the length of the 450 ohm matching section required for a G5RV-like dipole operating on 3.8 MHz, 7.2 MHz, and 10.125 MHz for all dipole lengths from 88 ft to 123 ft.

111 ft is an interesting length for people interested in 80m and 30m but not 40m. With a 17.75 ft 450 matching section ahead of the coax, EZNEC predicts a 50 ohm SWR of

1.6:1 on 3.735 MHz and a 50 ohm SWR of 2:1 on 10.125 MHz.
 Unfortunately, with these dimensions, there would be a
 50 ohm SWR of 46:1 on 40m. :-(

dipole	450 ohm	matching	section
length	3.8MHz	7.2MHz	10.125 MHz

88	34.19	41.47	22.76
89	33.68	41.06	22.56
90	33.16	40.68	22.36
91	32.62	40.30	22.16
92	32.07	39.94	21.96
93	31.51	39.59	21.77
94	30.93	39.25	21.57
95	30.33	38.93	21.37
96	29.72	38.61	21.17
97	29.08	38.30	20.98
98	28.43	38.00	20.77
99	27.76	37.71	20.57
100	27.06	37.43	20.37
101	26.34	37.15	20.16
102	25.60	36.88	19.95
103	24.83	36.66	19.74
104	24.03	36.36	19.52
105	23.21	36.10	19.31
106	22.35	35.86	19.08
107	21.46	35.61	18.85
108	20.54	35.37	18.62
109	19.58	35.14	18.38
110	18.57	34.91	18.13
111	17.53	34.68	17.88
112	16.44	34.46	17.62
113	15.30	34.24	17.35
114	14.11	34.02	17.08
115	12.87	33.80	16.79
116	11.56	33.59	16.49
117	10.19	33.38	16.18
118	8.74	33.17	15.85
119	7.22	32.96	15.56
120	5.66	32.76	15.16
121	3.92	32.55	14.79
122	2.13	32.35	14.39
123	0.22	32.15	13.97

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Stew Whitehouse <STEW_W@compuserve.com>
Subject: [13402] NA5N's Data Book
Message-ID: <1997030111100_MC2-11E5-B50A@compuserve.com>

Received mine yesterday
WOW!

Should be a mandatory requirement in every shack.
I think if everyone on the list had a copy, the questions
would be cut significantly....No, would change significantly.
Service from HB Electronics also great.

72/73 Stew KE4YH
Dunedin, Florida

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: George Gingell <k3tks@u1.abs.net>
Subject: [13373] Need Renewal INFO QRPP & ARCI
Message-ID: <Pine.BSI.3.93.970228222313.29252A-100000@u1.abs.net>

From: Richard Wilkerson <richqrp@cts.com>

Could someone please give me the mailing addresses of QRPP and the ARCI.
I need to send in my dues..... Thanksrich

Rich Wilkerson, WD6FDD, Santee, Ca.
ScQRPions

NORCAL & QRP ARCI RENEWALS-

Mike Bryce, WB8VGE Make Check for \$ 15.00 to "QRP ARCI"
QRP ARCI Membership
P.O. BOX 508
Massilon, OH 44648-0508

NORCAL Qrp Club Make Check for \$ 15.00 to "Jim Cates"
QRPP Subscription Renewal
Jim Cates, WA6GER
3241 Eastwood Road
Sacramento, CA 95821

Don't forget to Give your Callsign and Membership Numbers and
any Callsign Changes or Address Changes.

Mike Bryce, WB8VGE can be contacted at 73357.222@Compuserve.com

Jim Cates, WA6GER can be contacted at WAGER@juno.com

QRP DX TU (C) 1986 G. Danny Gingell, K3TKS@abs.net
Maryland Milliwatt QRP Reference Library, (301)572-6789

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: k5id@inets.net (Kenton E Graham)
Subject: [13419] NEW CRYSTALS WORK!
Message-ID: <199703012132.PAA02209@inets.inets.com>

HI Doug and qrp'ers

This note is to let Doug, Ori, and the entire Norcal Group know that their effort on new crystals was not in vain!! Soldered the sucker in and instantly... 30m signals. Everything works! Thanks GUYS!!

One mod which hasn't been mentioned to my knowledge regards the offset adjustment. I found my offset to be about 360 cycles, not too great, so I replaced c21 with a small npo trimmer (9-35) and adjusted offset to 650 hz, exactly matching the sidetone generated in the tick. This makes zero beating so much easier (just match your sidetone). A good improvement, and now I follow the output with one of Emtech's audio filters (switchable in and out), and What a great receiver!

Finally, after the third crystal, I get to be impressed....

Regards, Ken K5ID Barefoot in Arkansas

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Bill Nicolson <aa2yh@erols.com>
Subject: [13400] OHR Group Buy
Message-ID: <3318461B.1410@erols.com>

Could someone please send me the details on the group buy if it is still going on, thanks de bill aa2yh@erols.com

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Dave Adams <adamsclan@netgate.net>

Subject: [13384] Pheonix bound
Message-ID: <3317E13F.5D22@netgate.net>

I'm heading off to pheonix to visit my grandparents March 15th through 20th....are there any must visits whilst I'm there? Radio-related happenings?

73 de dave, n9uxu

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: wa5whn@juno.com (Jay D Miller)
Subject: [13401] QRP WAS/DXCC/WAZ
Message-ID: <19970301.081629.4551.3.wa5whn@juno.com>

QRP-Lers,

No, I am not Nils, he uses polysyllabic words, plus his computer can spell ; -)

We have some real quiet accomplishments, taking place, within this group. More or less self contained. N1IRZ (Hello Dave) just picked up QRP WAZ. Another Friend of mine, W1IS, Bob had worked QRP DXCC with a HW-8. That particular HW-8 is mounted on the DXCC plaque (until lightning had hit his house). Not to mention the recent accomplishments of working DXCC with a NorCal 40 & WAS using a Wilderness Sierra, just announced. Most of these People go quietly after their goals. With the number of 49ers, and their derivatives, plus the 38S's, it would not surprise me to see WAS & DXCC, with those xcvs mounted on a plaque.

I would even bet that this group (QRP-L) has more contests scheduled, than any other part of the hobby. So You quiet ones out there, post Your' QRP accomplishments, so the rest of us can set here with envy, then we can get off of our dead butts & attack one of those goals ; -)

T minus 56 days until the NorCal QRP TTF

72...Jay, WA5WHN
Grid square: DM65qd

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Joe Everhart <n2cx@voicenet.com>
Subject: [13366] Rainbow Kits are shipping!
Message-ID: <199703010155.UAA02683@mail3.voicenet.com>

Gang,

Well the long awaited (hope it's been awaited!) day has arrived. The first of the Rainbow kits went into the mail today! By early next week we expect to have the first 100 kits on their way. The remainder of the 300 on order will follow as soon as we get the pc boards from our supplier, which should be shortly. Each order was assigned a sequential number when recieved and the kits are being sent out in that sequence. I will alert the group via this list next week when all of the first 100 kits have been mailed out.

We are still accepting orders though the torrent has reduced to a steady flow. We currently anticipate a second build of 200 and will evaluate the possibility of expanding that number once we catch our breaths.

Thnaks for your patience. It won't be much longer!

Speaking for NJQRP

72/73,

Joe E., N2CX

n2cx@voicenet.com

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Steve/N0TU <N0TU@webaccess.net>

Subject: [13405] Silicon Valley "Candy Stores" ??
Message-ID: <3318604C.6CFB@webaccess.net>

Anyone in the Bay area like to divulge the names of some your favorite electronic "candy stores". You can respond direct if you wish not let others know. ;-) I'll be in San Jose in April on business and thought it might be fun to sort through some new parts...never know what gem you'll find.....Oh yes I'll have my rigs with...of course. Steve

"Just doing it!" - Havin'a blast buildin'& usin'QRP gear that is..
n0tu/hw8/49er/ExplorerII/38s/solar/backpack-mobile... QRP-L # 911
My homepages - <http://www.webaccess.net/~S&P> CQC# 394

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Tony Fishpool <101573.3220@CompuServe.COM>
Subject: [13391] Spread-Spectrum and bad CW sigs
Message-ID: <970301131841_101573.3220_IHK80-6@CompuServe.COM>

Interesting how these news items circulate the planet and suddenly become topical:-

>Laura mentioned spread-spectrum in her post.

and Gary AB7MY mentioned

>Wonder how many of you heard Paul Harvey's program last week

>that credited the patent for spread-spectrum to the actress Hedi Lamar?

There was a third of a page on Hedwig Eva Maria Keisler (Heddy Lamarr) in the friday edition of the U.K. broadsheet (what we call newspapers with more than just pictures in!) of the Independent. Heddy and her Co-inventor George Antheil

(a composer) had the idea of using a slotted piano roll to switch frequencies in a predetermined pattern. Sadly, the Lammarr-Antheil patent expired in 1959 (it says in the article), just three years before frequency hopping was first used

on ships during the Cuban blockade.

Back to our regular program, i.e. 38 Specials.

I tried Jim Kortge's mod:-

>Adjustable VX0 setting capability:

>-----

>Parts affected - L1. The reason for this change was two fold. I

>wanted to get as much range out of the VX0 as was practical, and

>easily adjust the lower end to 10.1Mhz. This was accomplished by

>making L1 a 10uH choke connected in series with a 5-45pF trimmer
>capacitor.

...and I found that the oscillator became free running but that may have been down to component tolerances and my 10uH may have not been "on the nose". So I fitted the just the 6.8uH and wound a few extra turns on it like we've been doing on the 4.7uH jobbie. The result was it tunes from 10.102 to 10.125. Now this covers where most of the action is over here so I'm going to leave it at that and get on with the Paul Harden version of the P.A. I rather fancy being able to switch the power (rather than continuously variable) between 1 and 5 watts.

Countries worked so far on 300mW are the Czech republic, Denmark and Spain. Where are all the U.S. NC38S's, or do I have to get up at some ungodly hour to find you?

Looking forward to Dayton & FDIM
Tony - G4WIF

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Joe Gervais <vole@primenet.com>
Subject: [13352] Straight Key Summary
Message-ID: <199703010009.RAA09183@usr01.primenet.com>

Howdy Folks,

A few days ago I asked about "quality" straight keys. Here's my (very unscientific) summary. Thanks to all who replied!

Straight Key Votes

Schurr MMK: 4 (\$180 - HRO)

Nye Viking Master: 3 (\$65 - AES)

Kent ("Long" model): 2 (About \$60-70 - Kent)

Bencher RJ-1: 2 (\$75 - AES)

Vibroplex: 1 (\$130 - HRO)

NOTES:

- Most folks concurred that no one brand/style of key can make everyone happy. It's a very personal thing. Try as many as you can until you find "The One".
- Both Schurr and Nye "Master" owners spoke quite glowingly of their keys.
- From email received, the Nye appears to be the best bargain for the buck.
- The Schurr is the no-compromise Excalibur, apparently forged from fallen stars by ancient dwarves in deep, forbidding caverns. :-) It's name was uttered with near-universal reverence.
- The Vibroplex received some mixed reviews.
- No comments received on the Jones key from Palomar.

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

2-Way QRP WAS: 44 (Need: HI, ME, ND, RI, VA, WV)

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Paul Stroud <aa4xx@amsat.org>
Subject: [13408] The KnightLite's Roundtable
Message-ID: <3318782A.3AF8@amsat.org>

Hi Gang,

We are all in for a treat during the month of March, with several stations sharing Net control duties--including N3G0, K3QIO, WJ4P, and AA4XX. I got a chance to see the famous 80M dipole of N3G0 last weekend as we prepared to head out to the FYBO site. This is the antenna that pulled in WA3NNA's 80M 100 uW beacon, so more than likely Gary's great ears will also be able to pull any of us QRPp types out of the soup.

K3QIO has a bodacious antenna farm near Wilmington, DE. Jim hears weak signals a lot of us don't hear down South, so his addition to the NCS Roundtable is also most welcome. WJ4P is an old hand at CW traffic handling. As of late, Randy has been checking into the Roundtable with his 89'er, running an RST 599 signal from his Off-Center Fed 80M Dipole. His experience in calling the Carolinas Traffic Net and serving as 4th region rep will serve us in VFB fashion. All of these guys are experienced CW operators and we are fortunate to be able to take advantage of their talents.

This past Sunday, Feb 23, we welcomed newcomer Zoel - AA1HV, to the KnightLites Roundtable. Zoel was running a FB signal with his 4W transmitter from Westford, MA.

We also had the following soapbox comments: "I ended FSFD with 46 2xQRP States and for FYBO had 24 QSO's. XYL and I will see you at Charlotte Hamfest" (K4NK), "Running new rig with battery power" (N2TNN), "Can't use 6L6 rig--no xtals--so on FT1000 backup rig with power down all the way" (WA5POK), "Was in FYBO and CQC Contests and went to swapfest. Had great weekend" (WA8LCZ) "Running my 89'er at 300mW. 9V battery getting weak!" (WJ4P)

The KnightLite's Roundtable meets each Sunday night, beginning at 0230Z (9:30PM EST) on 3686.4 KHz. The Net Control Station, which will be N3GO for this coming session, will be using the KL Club Call, WQ4RP. We invite you to join us soon. This past session was rather light, probably due to the fact that many of us were involved in the FYBO and CQC Contests. Thanks to N2TNN for his assistance with NCS duties this past session.

Here's the Roundtable roster for Sunday, Feb 23rd:

W8KC	Paul	Oakland Township,	MI	549	500mW	
K1CL	Chuck	Chelmsford,	MA	579		
VE3SP	Ron	Hamilton,	ON	599+	50W	
AA1HV	Zoel	Westford,	MA	339	4W	
K4NK	Les	Greenville,	SC	559		
W5XE	Ray	El Paso,	TX	329		
N2TNN	Dean	Sommerset,	NJ	589	3W	Dipole
WA5POK	Mike	Spring,	TX	579	5W	FT1000
WA8LCZ	Byron	Warren,	MI	559	5W	Gap Titan Vert
WB0CLD	Bill	St. Charles,	MO	439	5W	
WJ4P	Randy	Summerville,	SC	579	300mW	89'er/OCF Dipole
AA4XX	Paul	Raleigh,	NC	(NCS)	5W	OCF Dipole

-----72 till next Roundtable de WQ4RP-----

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Scott Bauer <ke3nv@erols.com>
Subject: [13379] Towers, Rotators, Need advise please
Message-ID: <199703010527.AAA26885@smtp3.erols.com>

Good evening fellow QRPers

I am planning on putting up a tower this spring and could use some good sound advise. This will be my first Tower, beam and rotator so, please excuse my ignorance.

My plans are for a 40 foot, freestanding model

I have a Rohn catalog and have compared a few towers.

I think the 25G will suit my needs fine, but I wonder if anyone could tell me what kind of top to use.

I also could use some advise on rotators. There are way to many for me to choose from. Im looking for "old reliable". Nothing fancy, but very dependable. There will only be one 3 or 4 element tribander on the tower, so I guess one of those super duty ones wont be needed, or will it??

I dont plan on putting the tower up by the way. Ill leave that up to the pro's. I want to live to use my new toy.

Any advice will be greatly appreciated.

72, scott

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV
Fists 1502 QRP Nut SWL Truck Pilot ARRL
Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40
S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80, all Sensational rigs.
38 special at 300mw

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Scott Bauer <ke3nv@erols.com> (by way of Scott Bauer <ke3nv@erols.com>)
Subject: [13386] Towers, Rotators, Need advise please
Message-ID: <199703010832.DAA00623@smtp3.erols.com>

Sorry too add to this, but I have no room at all for guy wires, period. Live on a city type lot.

Good evening fellow QRPers

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beam and rotator so, please excuse my ignorance.

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72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV

Fists 1502 QRP Nut SWL Truck Pilot ARRL

Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40

S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80, all Sensational rigs.

38 special at 300mw

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: Al Hunter <ahunter@inland.net>

Subject: [13395] Vibroplex URL

Message-ID: <3.0.1.32.19970301060220.006a0528@inland.net>

I can't seem to find the URL for the Vibroplex website.....would someone pass along that info? TIA

72/73

Al - AA6SO

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: "Lau, Zack, W1VT" <zlau@arrl.org>

Subject: [13426] Visiting Phoenix AZ

Message-ID: <m0w0xzK-0004rhC@mgate.arrl.org>

If you like to see impressive antenna systems I recommend WA7CJO's place. He probably has the biggest antenna farm located on a city lot....

He can run QRP on 10 GHz and hear EME echoes...

--Zack W1VT

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Kd0su@kktv.com
Subject: [13392] WORW - WAS with Sierra
Message-ID: <199703011335.IAA118701@nss2.CC.Lehigh.EDU>

Just wanted to congratulate WORW publicly for Working All States with his Wilderness Sierra. He did it in about a six month period of operating. Paul uses a dipole antenna, nothing fancy, but he is a great CW op. FYI, about thirty of the contacts were on 30 meters. I checked his cards, and the application is on the way to the ARRL for a WAS/QRP Award.

Keep up the great work Paul:-)

73, Rick
KD0SU -- Colorado Springs
CQC #100 - QRP-L #539 - MIQRP #1284 -- NORCAL
ARRL - AMSAT - SMIRK

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [13394] Weak Signal Reception
Message-ID: <199703011359.NAA06271@chuck.dallas.sgi.com>

Gang,

I have listened to both sides of this topic or what a lot of people preceive to be two sides but it is actually one topic --- patience.

patience - the capacity, habit, or fact of being patient

patient - 1: bearing pains or trials calmly or without complaint
2: not hasty or impetuous
3: steadfast despite opposition, difficulty, or adversity

Why is this group, on the average, more patient?

1. We have to have patience in order to sit down for hours to assemble a piece of equipment, debug it, align it, modify it, in order to get on the air. We could have mail ordered or bought an assembled rig and been on the air faster.
2. We have to have patience in order to sit for hours trying to work on guy on the other end of the ether waves called the fox.
3. We have to have patience to sit through 15 minutes or more of trying to work another station through QRM, QRN, and static crashes just to get the correct callsign, name, QTH, and a signal report.
4. We have to have patience and not have an ego problem to be able to many times write down our RST as 439, 339, and something other than 599 in the proper column.
5. We have the patience to watch topics recycled on qrp-l for the second, third, and N-th time, where N is large.

So, when someone says that they don't want to waste time trying to listen to a weak signal, fine. It immediately gives me a data point about the individual and where their priorities lie. So be it. Let's go on with our lives. Adversarial (I think I made that word up as it is not in my dictionary - see, patience to go look something up) relationships don't gain us much IMHO. A waste of time and energy that could be used for constructive activities.

On topic of the comparison of the old rigs with the modern. I wouldn't go back myself. I used a HW-16 for the longest time with a HG-10B VFO. Stable and QSK without a relay. I have a two resistor mod that will peak up the receiver if anyone hasn't done it yet. Back in the early days everyone was using the same VFO circuitry, so everyone drifted in the same direction and at the same rate so noone cared or knew the difference. Not the case today.

I hear guys complain about how bad the NE602 designs are. Humph!! I can hear just fine thank you very much. If I can hear everyone that can hear me and hear many more than can hear me under 1W then I think I have what I need.

So I think this is a good time to be a QRPer. Yes, we have those outside and some on the inside that continually have some point that

we all should give it up. Ain't gonna happen unless the governments take the frequencies away from us. I've thought about that too. What would happen if we could not operate? I'll bet you there would be some operation going on. :-) ;-)

So, sit back and relax. Enjoy the view. Enjoy the ride as the new car commercial says. Turn off the computer and the modem. It ain't helping your code speed or your country count. Turn on the rig. Go Forth and Emit RF. Someone will be there for you and hopefully it is one of the members of this group. Oh, look both ways before crossing the street. :-) Hold hands. Take naps like Nils does. Medication may help.

dit dit

Chuck Adams K5FO adams@sgi.com DXCC=11
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "L. Jeffrey Hetherington" <jhetheri@freenet.npiec.on.ca>
Subject: [13378] Wilderness Cascade?
Message-ID: <Pine.A32.3.93.970228234502.47732A-100000@freenet.npiec.on.ca>

Hi all. In a post from the digest in the past couple days it was mentioned that Wilderness Radio was offering the Cascade. Can anybody verify this? I didn't realize that Wilderness decided to go with that particular rig, but I hope they did! 8-)

73/72

Jeff - VA3JFF

=====
L. JEFFREY HETHERINGTON
Niagara Falls, Ontario, Canada
E-mail: L.Jeffrey.Hetherington@InternetAddress.com

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [13414] Your phonetics
Message-ID: <M1314236.001.ds310.1.970301201124Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Mike:

Saw your "ad" on the list with your Need 7 More Radios phonetics at the end.

Mine is similar, but use Need 6 Wild Girls!

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "James S. Braun" <jsbraun@FRONTIERNET.NET>
Subject: [13398] [Fwd: FS: A&A Engineering 40m Qrp Transceiver]
Message-ID: <331860C8.2C56@frontiernet.net>

Received: from node6 for jsbraun
with Cubic Circle's cucipop (v1.13 1996/12/26) Mon Feb 10 13:22:55 1997
X-From_: owner-qrp-1@Lehigh.EDU Mon Feb 10 12:55:03 1997
Received: from fidoii.CC.Lehigh.EDU (fidoii.CC.Lehigh.EDU [128.180.1.4]) by
node1.frontiernet.net (8.8.5/8.8.2) with ESMTP id MAA37924; Mon, 10 Feb 1997
12:47:20 -0500
Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.lehigh.edu with SMTP id
<35741-33334>; Mon, 10 Feb 1997 12:45:19 -0500
Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoii.cc.lehigh.edu with
ESMTP id <35183-33334>; Mon, 10 Feb 1997 12:40:45 -0500
Received: from node1.frontiernet.net (node1.frontiernet.net [205.232.174.11])
by nss2.CC.Lehigh.EDU (8.8.5/8.8.5) with ESMTP id MAA41015
for <qrp-1@Lehigh.EDU>; Mon, 10 Feb 1997 12:39:44 -0500
Received: from LOCALNAME (usr17-110.dial.roc.frontiernet.net [207.127.19.110]) by
node1.frontiernet.net (8.8.5/8.8.2) with SMTP id MAA24498 for <qrp-1@Lehigh.EDU>;
Mon, 10 Feb 1997 12:06:00 -0500
Message-Id: <32FF803E.2E51@frontiernet.net>
From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "James S. Braun" <jsbraun@frontiernet.net>
Subject: [13397] [Fwd: HW-9 accessories available]
Message-ID: <331860B5.4EB8@frontiernet.net>

Received: from node6 for jsbraun
with Cubic Circle's cucipop (v1.13 1996/12/26) Mon Feb 10 13:21:18 1997
X-From_: owner-qrp-1@Lehigh.EDU Mon Feb 10 12:18:25 1997
Received: from fidoii.CC.Lehigh.EDU (fidoii.CC.Lehigh.EDU [128.180.1.4]) by
node1.frontiernet.net (8.8.5/8.8.2) with ESMTP id MAA31618; Mon, 10 Feb 1997
12:08:14 -0500
Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.lehigh.edu with SMTP id
<35183-20024>; Mon, 10 Feb 1997 12:05:57 -0500
Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoii.cc.lehigh.edu with
ESMTP id <34866-20024>; Mon, 10 Feb 1997 12:04:43 -0500
Received: from node1.frontiernet.net (node1.frontiernet.net [205.232.174.11])
by nss2.CC.Lehigh.EDU (8.8.5/8.8.5) with ESMTP id MAA32695
for <qrp-1@Lehigh.EDU>; Mon, 10 Feb 1997 12:04:41 -0500
Received: from LOCALNAME (usr17-96.dial.roc.frontiernet.net [207.127.19.96]) by

node1.frontiernet.net (8.8.5/8.8.2) with SMTP id LAA20852 for <qrp-1@Lehigh.EDU>;
Mon, 10 Feb 1997 11:49:16 -0500
Message-Id: <32FF7C2C.5A2@frontiernet.net>
From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Dan Hogan <dhhogan@lightside.com>
Subject: [13361] Re: "different" Antennas..
Message-ID: <3.0.16.19970228150137.26a7d88c@mail.lightside.com>

On the Douglas DC-8, the top 1/4 of the Vertical Stabilizer was the HF antenna. It was separated from the rest of the airframe by a fiberglass dielectric band. The automatic tuner was located inside with about 8" of Coax. Power if I remember right was 240 Watts.

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806,
dhhogan@lightside.com ARRL, ARCI #3847, G-QRP #9533, FISTS #2949
Lat. 34d 03.5'N Lon. 117d 56.0'W Grid: OM84wc

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [13388] Re: "different" Antennas..
Message-ID: <Pine.SOL.3.91.970301060427.17905C-100000@hyper>

On Fri, 28 Feb 1997 JCoote@aol.com wrote:

> I would use two alike lawn chairs, balanced configuration, fed in the center
> with ladderline and a good tuner ;-)
>

Seems like the appropriate time to throw this one in...
Years ago, when ten meters was open and you could easily work anywhere in the world with QRP.. I worked a station in Africa (think it was Rhodesia) who was using his wooden leg for an antenna. The leg had a steel pin through it. He would take it off, set it atop the transmitter and load it up on 10M...
Anyone care to try that one??

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: Bob Patten <n4bp@shadow.net>
Subject: [13393] Re: "different" Antennas..
Message-ID: <Pine.SOL.3.91.970301083814.18752B-100000@hyper>

On Fri, 28 Feb 1997, J.B. Fox wrote:

> > Are yhou sure he wasn't pulling YOUR leg HI!!

Bad Foxy, Bad! :-)

I remember years ago someone writing up in a mag (might even have been QST) about feeding two cars as a dipole...

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Michael Tracy <mtracy@arrl.org>
Subject: [13396] Re: "different" Antennas..
Message-ID: <3318620C.340F@arrl.org>

Bob Patten wrote:

>
> I remember years ago someone writing up in a mag (might even have been
> QST) about feeding two cars as a dipole...

That was April 95 "The Dodge Dipole" - not the April Fool's article either, though many thought it was. I don't know if I'd try it even if I did have two identical cars - the neighbors are bound to give you funny looks when then figure out that you aren't trying to jump start one from the other.

73, Michael Tracy, KC1SX

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: DCrespy@aol.com
Subject: [13389] Re: "The Letter" (in QST)
Message-ID: <970301073337_-1172149416@emout03.mail.aol.com>

John,

I wish I could retract my post to QRP-L... I think the point the author made was valid..the receiving op does the work and as you point out, we could be working for the QSO too! ... but I missed another really basic point, the receiving op also MAKES THE DECISION TO REPLY TO OUR CALL. So he/she is responsible for his/her actions.. At any rate.. we should have fun at this and those who choose not to be part of it don't know what they have missed!!

You had written:

>>Hey! Give us a little credit too! After all, we're the ones providing him/her the opportunity to hone his/her operating skills. You'd think the least he/she could do is reciprocate by making us do our share of the work.<<

72/73

Harry KG5LO
Saline MI

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: tayloe_d@juno.com (Daniel R Tayloe)
Subject: [13420] Re: 24v 38 Special -> 20 watts
Message-ID: <19970301.143042.7719.0.tayloe_d@juno.com>

On Sat, 1 Mar 1997 13:42:13 -0500 bruce muscolino <w6toy@pop.erols.com> writes:

>At 07:59 PM 2/27/97 EST, you wrote:

>>

>>I get RF peak voltages of about 45v (90v peak to peak) across my 50
>>ohm dummy load, resulting in $V^2/(2 \times 50)$ or 20.25w. With the variable
>>output power modification, (ac coupling the MOSFET gate and varying
>> the gate bias voltage as derived from the "T-" signal from 0 to about
>> 5.25v), I can get continuously variable power from 10mw (1v peak) to
>>20.25w (45v peak).

>>

>You ought to clarify that V you used in your calculation is multiplied
>by .707 to get rms. Power is an average quantity, not a peak one. Oh,
>yes, I did check your math.

>

Ah, keeping me honest!

Yeah, I didn't want to get into all of that. Yes, the factor of two takes care of the RMS to average involving V^2 , as you have noticed.

Actually, I noticed that a stock 38 special with the stock 5w mod will not work as I first said. The bias for the gate for that modification is

derived from the 12v line. As the rig input voltage is raised, the bias voltage to the IRF510 goes up also, which messes things up by biasing the IRF511 to high. In fact I think this caused problems with folks early on who tried to run 13.8v.

I derived my gate bias from the "T-" signal which is regulated, of sorts, to about 7.75v, so I had no problems. People that have used the direct coupling between the gate of the IRF510 and the driver, shorting out the coupling cap will be ok also.

Now to see if I can get the 40m mods to my 38 special all wrapped up by tonight and get it out on the air!

- Dan Tayloe, N7VE, Phoenix, Az, QRPL # 696, Az ScQRPions

>

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Steve/N0TU <N0TU@webaccess.net>
Subject: [13365] Re: Anti CW Article in "73"
Message-ID: <33178A09.560B@webaccess.net>

Dan Hogan wrote:

>
> Question:
>
> Why the sudden paranoia over non/anti QRP statements? We are here, and QRP
> is growing. You get anti-whatever when others start feeling threatened by you.
>
> So lets ignore "them" and get on with QRP.
>
> I am waiting for the SST.
>
> Dan Hogan
> West Covina, CA
> dhhogan@lightside.com

Amen Dan!.....Steve

"Just doing it" - Havin'a blast buildin'& usin'QRP gear that is...
N0TU/hw8/49er/ExplorerII/38s/solar/backpack-mobile... QRP-L # 911
My homepage - <http://www.webaccess.net/~S&P> ARS# 206 CQC# 394

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Dave.Ackrill@westwood45.powergen.co.uk
Subject: [13387] Re: AT&T Wireless Phone System (Longish)
Message-ID: <970301105151Z*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/
ADMD=CWMAIL/C=GB@MHS>

Regarding the statement:-

"Gulp. If this is indeed 10 GHz and not 10 MHz, it sounds like we have another band in trouble. The U.K. has just lost most of 10 GHz to wireless telephone stuff... :-("

I wouldn't say that we have lost "most" of the band in the UK as the allocation was 500MHz wide and we have had 150MHz removed. That's 30% of the band. Whilst I agree that any loss is not welcome it doesn't help to make emotive statements as the authorities will come back with figures, just as I've done, and shoot you out of the water.

Better to say things like "significant loss" or "valuable amounts" as this can be defended by arguing that 30% is a significant amount of an amateur band (just think if the UK lost 30% of its 7MHz band, which is only 100kHz wide!) and it must be "valuable" otherwise the other user wouldn't be interested in having exclusive primary access to the band.

The loss in the UK was to the Radio Fixed Access service, I'm not sure if this is "wireless telephone" but we used to share the band with Mercury Communications Ltd, who had some fixed links. In fact when they got rid of the equipment several amateurs benefited by being able to convert it to a very good transverter system and was useful for people upgrading from simple wideband FM to CW/SSB equipment. So commercial interest isn't always bad.

I'm not sure why the government decided to grant exclusive access, we already share other bands, like 430MHz, with other users but I guess that they were worried about interference problems with the increase in activity on 10GHz from amateurs.

I appreciate the support, but think that sometimes we do ourselves no favours in the words we choose.

What's this to do with QRP? Well nearly all the gear, at present, in use on 10GHz is QRP levels and the precedent that it sets is, in my opinion, dangerous for all amateur allocations. Over here even primary allocations are not "protected". In other words we cannot claim any protection from intruders by right, so our licensing authorities are not obliged to do anything about interference to

amateurs. We also have a lot of secondary allocations, where the situation is even worse as we are expected to move on request of the primary user.

This is an area where we must all help one another and not just take the view that "I don't use that band so who cares?" as the next band might be yours. Which is why I was surprised when the ARRL said that the threat from the Little Leo satellites was an internal US matter and didn't want support from other national societies. The effects on one countries allocations can have an affect on anothers, either directly from interference to the allocated user in the other country, or as being seen as a "good idea" to the other countries licensing authority, as we now see from the reported threat to a microwave band in the US. (Allowing for the inaccuracies in the report about which frequency was being considered).

If the RSGB took the same attitude as the ARRL they would say that interference from the UK to the US on 10GHz is unlikely. However, the threat to our bands from copycat allocation removal is a real problem.

Regards - Dave (G0DJJA)

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: dwink@juno.com (Daniel C Winkler)
Subject: [13429] Re: attic loop (long)
Message-ID: <19970301.153447.4335.12.DWink@juno.com>

Hi Mike,

On 15 Feb 97 20:12:26 EST William Hansgen <102762.1311@compuserve.com>
writes:

>... wire in your attic ... Use heavy gauge wire
> I am soon to replace my smaller gauge wire with #8 speaker wire.

Whoa, that's expensive stuff! I have a suggestion: try aluminum foil. At a few pennies per foot, and 12 or 18 inches wide, it is not only a "big" conductor, but really cheap. Attics are friendly places to antennas- no wind or ice or rain, so the fragile nature of aluminum foil is no drawback. The tough part is connecting to it. Try soldering your feeder to a strip of pc board a few inches wide and as long as your aluminum foil. Wrap the foil around it twice, scrunch it down, and put a bunch of clothespins on it to keep the contact. Yes, eventually you may get problems with the dissimilar metals corroding, but you'll still have capacitive coupling. If your dissimilar metals oxidize and

make a little rectifier there, why, you know right where to go when you start getting strange interference problems. (My antennas are never up long enough for that to happen.) The dry wood of the attic rafters is a reasonable insulator, but little slings of nylon fish line could be used to isolate the antenna if you wish. Probably more of a concern at high voltage points- that is, away from the feeder.

If you can't bring yourself to use anything so mundane as foil, there's always 1/4" copper tubing, which is not as flexible as that #8 speaker wire, but still about 1/2 the price, and readily available at hardware stores. And as I mentioned in a previous post, solid conductors supposedly work better as HF conductors than stranded wire- although I still have trouble understanding why. "Stranded wire is much easier to use...The greater propagation resistance than that of a solid conductor can be minimized by design." - on p.10 of Wirebook III, by Press Jones, N8UG.

However, all this is academic. Conductor size only begins to play a significant role when your antenna impedance becomes small compared to your wire's rf resistance, as happens in a small magnetic loop. By small, we mean less than a quarter wavelength in circumference, like the MFJ and AEA loops, where the radiation resistance is less than 1 ohm (more like 0.08 ohms at their lowest frequency of operation). I doubt anyone could measure any difference in efficiency of your system were you to switch to #4 wire.

Just for fun I modeled your 95' attic wire on EZNEC. I neglected all that other stuff you've got up there in your attic. I made it a rectangle 16 x 32 (96' around), 20' up (2 story house?), and fed it at a corner. I started with 18 gauge wire.

At 1.8 MHz:	4.995 + j 657	(zero-resistance wire: 0.81 + j 653)
At 3.6 MHz:	21.5 + j 1937	(zero resistance wire: 8 + j 1950)
At 7.1 MHz:	103.47 - j 1880	(zero-resistance wire: 93.4 - 1889)...

so on 40 that 18 gauge wire adds about 10% resistance (103/93) = 10% increase in loss, or .46 db. You'll never miss it! But if you really want to do better... Also at 7.1 MHz, but using:

#16 gauge Cu wire:	101 - j 1843
#14 gauge Cu wire:	99.6 - j 1798

#4 gauge Cu wire: 94.8 - j 1568
.25 inch copper tube: 94.4 - j 1528
4 inch aluminum: 89.3 - j 960

Finally I tried tying two 18 gauge wires in parallel, running them a foot apart (two 16 x 32 rectangles- one at 19.5', one at 20.5'). At one corner I brought them together into a single wire for feeding. I got 66.6 - j 973. Note how two small paralleled wires simulate a MUCH larger conductor.

I bet you are losing more in your tuner than the 0.46 db you would gain by going to a thicker conductor. And you could easily be losing that much in your feedline, too, depending on what hidden metal stuff you had to run it past. I think I'd try to arrange to get rid of some of that reactance- by making the thing larger.

I tried pushing out over your spare bedroom (garage/toolshed/porch), making the rectangle into an L. The pooched-out portion is 8 x 8, which adds 16' to the 96' we had, for a total of 112'. EZNEC says 69 - j 899. This might be easier to feed than the 96' wire, but is no better than the 96' "foil" model, or the paralleled wires. What you really need is about 140' up there. Sorry, no time to model more.

For me no trip to the attic is complete without a good conk on the head by some ill-mannered rafter, and a nice splinter or two, so I only change my attic antenna around about every year. I'm overdue. I think I'll try foil this year.

GL es 72

; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Richard Sherman <srichard@aldus.northnet.org>
Subject: [13362] Re: Chirpy drifting QRP signals
Message-ID: <3.0.16.19970301010955.3a1f88e8@aldus.northnet.org>

A few questions:

Could it be that KM1H has an axe to grind with some people on our list?
Could he be getting his jollies at our expense by seeing how riled up we
can get over his post to another reflector?
Should we be letting him get his jollies?

Just curious,
72 de Rick WZ2T NNY
srichard@northnet.org
I have an existential map -
- it has "You are here" written all over it.
Steven Wright---

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cwh813@aol.com
Subject: [13369] Re: Chirpy drifting QRP signals
Message-ID: <970228211820_620641384@emout12.mail.aol.com>

Since when was CW an ART? The old American Morse telegraphers were usually
fully tanked by 10AM....thats what gave them the distinctive fists.

cheers; Chris

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: highland@cityscape.net
Subject: [13427] Re: Crystals where to buy them?
Message-ID: <3318BDC7.5196@cityscape.net>

Group,

Sorry about my misinformation. The crystal that I'm looking for are
the FT 243 style. I had failed to look closely at the case before
placing my request. The original crystall was prominently marked with
"TYPE H-73" from JK products in Sandwich Illinois. It is also marked
"FT 243" on the bottom between pins. Again, I'm looking for fundamental
crystals in the novice portions of the 80 and 40 meter bands and also in
the freq. range of 3.550 to 3.575

de KA9KQH, Dwayne
sorry for the additional bandwidth
--
....quitely making noise.....
mailto:highland@cityscape.net

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: launerb@crl.com (William H. Launer)
Subject: [13360] Re: Debugger #2: Day 2 -- We have ignition
Message-ID: <v01530502af3d3021c4f3@[192.0.2.1]>

Is this the "chirpy, drifty" radio that km1h (Radiokit) complained about,
which brought on the torrent? Better check for these! (hi)

In all seriousness, it looks like the team has the radio under control!

Congratulations,

72/73 Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arco #3551
Grid Square EM48RT

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: rob3ert@juno.com (Robert G. Parks)
Subject: [13363] Re: Debugger #2: Day 2 -- We have ignition
Message-ID: <19970228.171814.8814.0.rob3ert@juno.com>

Great job, Mike!

Put it in the box. Being selection number nine, I knew it would never
make it to me!! You guys are great!

72/73

Bob Parks
K6AEC (Las Vegas)

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [13364] Re: Debugger #2: Day 2 -- We have ignition
Message-ID: <199703010119.TAA06334@multi13.netcomi.com>

Bill wrote:

>
> Is this the "chirpy, drifty" radio that km1h (Radiokit) complained about,
> which brought on the torrent? Better check for these! (hi)
>

One and the same!

> In all seriousness, it looks like the team has the radio under control!
>

Don't speak too soon! We still don't know about its drift and stability yet. Could be singing like a canary.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cwh813@aol.com
Subject: [13370] Re: Debugger #2: Day 2 -- We have ignition
Message-ID: <970228213508_1282673019@emout12.mail.aol.com>

Why not ask KM1H at Radiokit to run a full lab test on it? I think he is having a ball reading this stuff. At least 2 or so years ago he said that he has personally debugged over 20 miswired kits.....mine included. I think that was after his tech died suddenly and he got way behind. I get 6W out on both the 30 and 40M versions and have not had an iota of problems. No chirps or drift anyway and always nice reports.

Thanks; Chris

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [13374] Re: Debugger #2: Day 2 -- We have ignition
Message-ID: <19970228.203720.10222.1.gsurrency@juno.com>

Mike,

Sounds like you got it pretty well wrapped up.

I just love this troubleshooting thread!

Say, what kind of PA transistor is it using, and also what type of output filter is it? 5 element? 7 element? Is the PA choke a RFC type or a bifilar wound autotransformer? How's the QSK? Relay? Solid State? Is it clean QSK or does it er, thump? :-)

Great job! Shows how important it is to have a scope or some method of measuring the LO, VFO, mixer freqs., etc.

What's next? Why, I guess you could check it out for spectral purity, chirps, clicks, drift, etc. ;-) Yikes!

72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [13355] Re: dit dit or dah dah ???
Message-ID: <199703010022.SAA05827@admin.inetport.com>

I vote for thumbs for dits....
Larry

KA5T Larry Wise Georgetown, Texas lewise@inetport.com QRP-L 89 ex K80SG
W6HED W4ZTB

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Robert Paschal <r-paschal@worldnet.att.net>
Subject: [13359] Re: dit dit or dah dah ???
Message-ID: <19970301002101.AAA6476@LOCALNAME>

At 09:24 PM 2/28/97 +0000, you wrote:
>OK, another dumb question. I just built my first keyer. (A small \$12 kit

>from Ten-Tec, and homemade key). Nothing in the instructions about which
>side should be dits and which side should be dahs. I wired it as dits to
>the left and dahs to the right - is this the norm?

> 73 de Jim (AD4KB@aol.com)

>

Jim, There was quite a thread on this not too long ago. On balance, the majority opinion seems to be that the dits are on the thumb. When I started using a paddle years ago it seemed to me that the dahs should be on the thumb and that's the way I learned it. Kind of hard to change now. If you have not developed any skill either way I would say you would be better off with the dits on the thumb. If you ever use someone else's keyer, more often than not it will be wired that way.

73 Bob AA0MC

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: Ed Tanton <n4xy@avana.net>

Subject: [13372] Re: flat nicads

Message-ID: <3.0.1.32.19970228222140.009a3530@tiger.avana.net>

John... most of my nicads-especially the ones used with my Icom W-2A have surely gone to a richly deserved Battery Hell-not Heaven.

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX

189 Pioneer Trail

Marietta, GA 30068-3466

QRP-ARCI#7663

G-QRP#6779

OK-QRP#172

QRP-L#758

AdvRC#140

NORCAL#1779

NCDXF

SEDXC

Life Member: ARRL

AMSAT

IDRA

INDEXA

QCWA

URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: "James S. Braun" <jsbraun@frontiernet.net>

Subject: FS: A&A Engineering 40m Qrp Transceiver

I have for sale my A&A Engineering 40m Qrp Transceiver.

This is the Gary Breed (k9ay) design: features single-signal receiver, VFO tuning, AGC, output 5watts, and also has KC-1 installed.

In excellent condition w/ all documentation. I have made many contacts with this rig, and only reason for selling is I need something else to build. I would like to purchase a Sierra as my next project.

I am asking \$150 / or trade towards unbulit Sierra.
I can be reached at (716)367-9826 or e-mail: jsbraun@frontiernet.net

Thanks / 72's
Scott
KB2GWF
Qrp-L #286

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
Subject: [13403] Re: GQRP - Badger Products
Message-ID: <199703011603.LAA06858@mail.bright.net>

I wonder if you mean Kanga Products?? I am not aware of any Badger Products company in the UK - or anywhere, unless Nils is forming a new company and hasn't told us about it yet...

Kanga Products makes a six meter cw QRP tx the puts out about 1/4 watt. They also do a simple 6 meter converter using an NE602. Both kits are in the \$30 range.

I also carry a Hands Electronics SSB/CW xcvr for 6 meters that puts out about 3 watts. The basic kit starts at about \$260

Finally - the KK7B series of kits I handle will also work on 6 meters. The R1, R2, or mini R2 module for receive, the T2 module for transmit, and the LM2 module for the osc, filter, T/R, etc. Check out my web page at qrp.cc.nd.edu/kanga for more details.

> Not too long ago, Rusty KE4VBB, asked for some information on 6 meter kits.
> Someone from the UK replied to him, but he lost the information. Would
> whoever that was please respond again to RLeee@aol.com? I believe the
> information was in reference to Badger Products, so if anyone has any
> information on that company, would they please respond also? Might be of
> interest to the qrp-l list as well.
>
> Thanks much,
> 73,
> Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP

> ARCI #8918, AK QRP #30, not in any order of importance.

>

> <http://www.dancris.com/~ki7mn>

>

> ---

> Via GQRP-L - The G-QRP Club mailing list

>

>

73 - Bill - N8ET

Kanga US

kanga@mail.bright.net

<http://qrp.cc.nd.edu/kanga/>

419-423-4604

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: Leon Heller <leon@lfheller.demon.co.uk>

Subject: [13422] Re: GQRP - Badger Products

Message-ID: <t4nKrAAz9HGzEwT3@lfheller.demon.co.uk>

In message <199703011603.LAA06858@mail.bright.net>, Bill Kelsey - N8ET - Kanga US <kanga@mail.bright.net> writes

>I wonder if you mean Kanga Products?? I am not aware of any Badger

>Products company in the UK - or anywhere, unless Nils is forming a

>new company and hasn't told us about it yet...

>

>Kanga Products makes a six meter cw QRP tx the puts out about 1/4

>watt. They also do a simple 6 meter converter using an NE602. Both

>kits are in the \$30 range.

>

>I also carry a Hands Electronics SSB/CW xcvr for 6 meters that puts

>out about 3 watts. The basic kit starts at about \$260

>

>Finally - the KK7B series of kits I handle will also work on 6

>meters. The R1, R2, or mini R2 module for receive, the T2 module for

>transmit, and the LM2 module for the osc, filter, T/R, etc. Check out

>my web page at qrp.cc.nd.edu/kanga for more details.

>

>> Not too long ago, Rusty KE4VBB, asked for some information on 6 meter kits.

>> Someone from the UK replied to him, but he lost the information. Would

>> whoever that was please respond again to RLeee@aol.com? I believe the

>> information was in reference to Badger Products, so if anyone has any

>> information on that company, would they please respond also? Might be of

>> interest to the qrp-l list as well.

>>

Badger Boards is what they are called, and I think that their sister

company, JAB, does have a 6m kit. They are both based in Birmingham (UK) and used to advertise in RadCom, but I can't find one of their adverts in any recent copies. I believe Mr Badger has been ill, which has caused them some problems. They have produced boards for many of the designs published in RadCom. I have a phone number in my organiser for Badger Boards, but I don't know if it's any good - (0)121-353 9326.

Leon

--

Leon Heller, G1HSM

leon@lfheller.demon.co.uk

Tel: +44 (0) 118 947 1424 (home)

+44 (0) 1344 385556 (work)

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: k5zty@juno.com (WILLIAM A STIETENROTH)

Subject: [13377] Re: Greetings from Bulgaria!

Message-ID: <19970301.033908.4631.4.k5zty@juno.com>

Is this a scam???

Bill, K5ZTY

WITHOUT CW, IT'S JUST CB

ARCI 8817, CQC 178, NOR-CAL 1321, MI 1472, NE 440

QRP-L 473

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: "James S. Braun" <jsbraun@frontiernet.net>

Subject: HW-9 accessories available

I have the following Heathkit HW-9 accessories available:

*PSA-9 Power Supply- in excellent condition w/ copy of manual.

*HFT-9A Qrp Tuner- in VGC w/ manual.

*HM-9 Qrp Wattmeter- Not working. (case has scratches, but face in VGC) w/ manual.

I would like to poss trade these items for a unbuilt Norcal 40A, or towards a unbuilt Sierra.

I can be reached at (716)367-9826 or via e-mail: jsbraun@frontiernet.net

Thanks / 72's
Scott
KB2GWF
Qrp-L #286

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: martin38945@juno.com
Subject: [13385] Re: KM1H/Chirp comments
Message-ID: <19970301.024032.6807.1.martin38945@juno.com>

Dear Jay and Friends,

Amen to all that Jay has said. I worked over 100 QRP stations last weekend in the FYBO and CQC contests. The quality of the vast majority of the signals was excellent. They were, by no means, drifty, clicking or chirpy.

KM1H's assertions are not annoying because they represent a difference of opinion. They are annoying because they are pure fabrication and outright falsehood. It just is not the truth. Anyone who has listened around 7040 or 14060 knows it isn't the truth. And for the life of me, I have no idea why KM1H decided to perpetrate that fairy tale on the world.

My first impression was that he was pulling some kind of publicity stunt or ploy for attention. We have already dealt with one of those this week. Or perhaps this was KM1H's way of expressing anger with a group... for God knows what reason. But whatever his motivation might have been... He certainly has everyone writing about him, doesn't he?

I wonder if KM1H happened to have logged the calls of those chirping birds. For some strange reason... I have a feeling he didn't. It's a shame too. We could have used the constructive criticism. Tell me... who among us wouldn't welcome a genuine report of a problem... and take steps to correct any problem we might have?

KM1H needs to fall back asleep. The drifty, clicking, chirping QRPers are in his dreams.

vy 73,

Martin W9XN QRP-L #998

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [13375] Re: LM386
Message-ID: <19970228.203720.10222.0.gsurrency@juno.com>

Amen, Larry! The LM386 data sheet shows up to a 50db Power Supply Rejection Ratio (PSRR) with a 10uf cap from pin 7 to ground and the gain at 20 with 6V supply and 1 khz operation.

My Ark30 had a squirrley sounding low level noise before I put a 10uf tantalum on pin 7 to ground. It might have been coming from some of the digital synthesis circuitry and was most noticeable when using headphones.

One glance at the LM386's internal equivalent schematic shows why this decoupling cap is so needed. Pin 7 is right on the chip's bias network.

BTW, on the ARK30, I placed the 10uf tantalum cap on the foil side of the transceiver board. It just fits between the PCB and the shield plate.

I have also found on many op amp circuit designs, that the unused input pin ALWAYS need to be decoupled if it is not grounded or you will invariably get keying or T/R thumps in the audio chain. Several radios I have or have looked at omit this decoupling cap on the resistive divider on the non-inverting input (+ lead). The TAC-1 had this problem on the op amp following the CMOS bilateral switch chip. A 0.33 uf monolythic axial cap fixed it completely, and killed the thump.

Bypass that lil sucker!

72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: "Carol N. Wright" <cnw@HiWAAAY.net>
Subject: [13423] Re: Lost time (ramblings of an OF) long
Message-ID: <Pine.OSF.3.94.970301160757.20704I-100000@fly.HiWAAAY.net>

Hey Rod,

I am sorry but I think that I called you John the other day when I sent you a reply to my gell cell question. So sorry about that Rod. Boy, it sounds like your are really getting into QRP. I am going to get around to gettings some more kits one of these days. I am sort of having a cash flow problem right now. I use my lunch money that I save up from school to get parts, about \$70 or \$80 worth from 624 Kits, Dan's Small Parts, and HB electronics. I also got one of those NA5N Data books or whatever. It sounds like it is about time to get your whole family in their and teach them how to solder to get some of those kits done so that we can hear you on the air Rod. Hee Hee! I really need to get me some of those little plastic bins to keep my parts in. Best
72 DE Matt, AE4JM

--

JCARC--ARCI 9178--ARRL--ARRL ORS--Ten Ten 66932--VP 2855--WAS
Matt Wright, ph. (205)228-6547, packet: AE4JM@K4BFT.#HSV.AL.USA.NA
email: cnw@HiWAAAY.net snail mail:8679 Co. Rd. 19, Section, AL 35771
Ramsey mini rcvr-40mtrs, NC38S, SW30-30, NC49'er, NC40A with KC1

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [13404] Re: Multiband dipole/vee

>What about 450 ohm ladderline? What is the math for it?
>...so I am looking for a short antenna, ...cut for 30m or 40m,

Hi Matt, the BASIC program I posted is ideal for doing what you want to do. 3/8 wavelength is about the shortest efficient antenna so that would make your dipole 50 ft long. EZNEC sez if you feed it with 71 ft of 450 ohm ladder-line, the result through a 1:1 current balun/choke will be a resistive 20 ohms on 7.1 MHz with an 50 ohm SWR of 2.5:1. Adding 8.5 ft of 450 ohm ladder-line gives a resistive 91 ohms which is a 50 ohm SWR of 1.82:1. Although these are not bad SWRs, I would take along an antenna tuner.

As always, EZNEC results are only approximations and are a starting point before trimming to perfection.

73, Cecil, W6RCA, 00TC

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: kt3a@juno.com
Subject: [13353] Re: Parts Storage

Message-ID: <19970228.185712.5407.2.kt3a@juno.com>

Hello,

As for parts storage, I find a guy who just became a father and tell him not to throw out the baby food jars when junior starts on solid foods. I like the ones that are about 3 to 4 inches high and made of glass. I like being able to look inside without spilling the parts everywhere. What I do next is put the parts list inside of the jar with the printing facing the outside, so I can read what is in there. We do this on my full time job too.

Cameron C.R. Bailey, KT3A <><
ARCI Board Member, QRP-L 7
QRP Society of Central Pennsylvania 4
ARCI 7053, ARS 6, ARRL, NE 219, NorCal 232, scQRPion 32
Mount Wolf, Pennsylvania

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: kt3a@juno.com
Subject: [13354] Re: QRP nonsense
Message-ID: <19970228.185712.5407.3.kt3a@juno.com>

Hey fellow Cheapskapes!!

Who is calling us cheap? Would they plunk down \$120 or more for a rig that only works CW and only about 50 kHz and you HAVE TO BUILD IT TOO!

I don't call that cheap.

I would be willing to pay the same price for a rig as a commercially built one.
I don't call that cheap. To build takes skill.
We may be able to get a rig on the air for \$20 and some junk box parts, but I call that smart.
QRP builders are some of the best shoppers at a hamfest, not because they are cheap, but because they know what to look for. Anybody can apply for a plastic card and plop it down at the dealer's table. No skill and no smarts.

72, Cam, kt3a

On Fri, 28 Feb 1997 14:51:33 -0800 john andrews <jm165723@eee.org>
writes:
>> >Reply-To: km1h@juno.com
>
>> >The QRPers are so deep into cheap that they have lost the concept
>of
>> >quality.
>
>Gee...I Dunno, James....But it makes one wonder where this source
>of "cheap" is generated.
>
>72, John- N5INZ
>
>

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [13368] Re: QRP nonsense
Message-ID: <33198b22.75775437@smtp.usit.net>

On Fri, 28 Feb 1997 19:15:32 EST, kt3a@juno.com wrote:

>Hey fellow Cheapskapes!!
>
>Who is calling us cheap? Would they plunk down
>\$120 or more for a rig that only works CW and only
>about 50 kHz and you HAVE TO BUILD IT TOO!
>
>I don't call that cheap.
>
>I would be willing to pay the same price for a rig
>as a commercially built one.
>I don't call that cheap. To build takes skill.
>We may be able to get a rig on the air for \$20 and
>some junk box parts, but I call that smart.
>QRP builders are some of the best shoppers at a=20
>hamfest, not because they are cheap, but because
>they know what to look for. Anybody can apply=20
>for a plastic card and plop it down at the dealer's
>table. No skill and no smarts. =20

I think you addressed the hb issue quite nicely. I'm only now
getting back into ham radio after a four year absense on the HF
bands, and since I'm unemployed, I admit that "cheap" (on the order
of the 38 special) has something to do with it. However, the

"cheap" I've seen typically has more thought and care involved than some of the microprocessor-controlled commercial stuff.

We, as amateurs, tend to read things like "specs" and "data sheets" that others perhaps don't, being too "professional" to read the instructions. :) The little thread on the bypass cap on pin 7 of the LM386 discussion bears this out.

I've finally picked up a copy of QST for March (it hit the local newsstand today), and read the so-called "offensive" letter. I would choose to say "unenlightened" or "unelegant".

Adam, who I believe is now monitoring our list, raises some good questions. He unfortunately attributes them to QRP, but rather the emphasis on "digging" the signal is applicable to all of amateur radio, QRP or QRO. If I run 1000 watts into a dummy load of an antenna, I can't expect too much. People will be digging me out, regardless of the power output.

I learned early that antenna construction is the much more inexpensive amplifier. Plus, it works on receive as well (unlike the power amplifier).

But more to Adam's point, which seemed to me to be a "why would anybody want to do this QRP thing?" type question, and a good question at that.

Why do I want to do QRP?

by me

I liken QRP operating to sailing. Why would someone sail when 500 hp motors are widely available?

Sailing requires that equipment be at peak efficiency to be effective. The sail (antenna) is what drives the boat (power). The steering mechanism and rudder (radio) must be efficient and sensitive, to take advantage of every puff of wind (propagation change).

Power boats (QRO stations) rarely notice the subtleties of the wind (propagation). They plow along right with it. To sailboats (QRP stations), those subtleties are life and death. A good captain (operator) will learn, over time to read the wind (propagation), and use it most effectively.

Sure, there is an advantage to running power boats over sail boats. But there is more skill developed in a sailboat.

To lose the extended analogy for a moment, the QRP operator, because of the knowledge of the subtleties of propagation, antenna construction and efficiency, and clean signal generation, has a distinct advantage in working DX, even when the QRP operator works at QRO power levels. He/she knows the terrain better.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: nf0r@slacc.com
Subject: [13382] Re: QST de Abilene, TX
Message-ID: <9703010002.D8709rQ@slacc.com>

Dear OM's! Thanks for all the information being sent along for the fledgling QRPer in Abilene, TX.

What I was hoping for was an experienced QRPer in the Abilene, TX area to provide a little good advice and counsel to this fellow, especially on choosing and subsequently building a homebrew xcvr.

He's not on line so access to the QRP-L is not possible at this time. But some telephone conversations or an eye-ball QSO would serve very well.

Same as before, if you can help send e-mail and I will put you in touch.

Many thanks,

de Dave, NF0R nf0r@slacc.com

From owner-qrp-l@Lehigh.EDU Sat Mar 1 18:04:29 1997
From: ukii@megsinet.net (ukii)
Subject: [13358] RE: Straight Key Summary
Message-ID: <01BCFC2B.81A99860@randolph2er1-21.megsinet.net>

Hello Gang...

Well,had time today to actually READ some mail
and almost busted a gut at Joes message...

The Schurr is the no-compromise Excalibur, apparently forged
from fallen stars by ancient dwarves in deep, forbidding
caverns. :-) It's name was uttered with near-universal
reverence.

I will tell ya joe,,,havent seen a description that"picturefull" since
I read Lord of the Rings !!!!

Great!

Guess QRP'ers use less power but MORE IMAGINATION!

73

de john

n9ukx

*** if it doesnt have a sidetone,
it must be a CB ***

From owner-qrp-1@Lehigh.EDU Sat Mar 1 18:04:29 1997

From: NilsBull@aol.com

Subject: [13418] Re: Weak Signal Reception

Message-ID: <970301163019_1679926058@emout14.mail.aol.com>

You left out "Patient: one who is undergoing treatment."

I'm that one. And these badgers have no bed side manner at all. Give you a
shot and then stand there waiting for you to pay up. Don't even have a chance
to pull up my pants. What a deal.

But, now that I think of it no, that's another story.

73

Nils

WB8IJN +c

. . . did I ever tell you about the time Dad's doctor called Mom and told
her that Dad might want to consider finding himself another physician? Funny
billing statements are part of it.